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INTEGRAL detects a new outburst from the NS LMXB SAX J1750.8-2900

ATel #12048; *E. Bozzo (ISDC, Switzerland), E. Kuulkers (ESA/ESTEC, Netherlands), A. Paizis (INAF-IASF Milano, Italy), A. Bazzano (INAF-IAPS Rome, Italy), R. Wijnands (UVA, Netherlands), P. Kretschmar, C. Sanchez-Fernandez (ESA/ESAC, Spain), J. Chenevez (DTU, Denmark), M. Del Santo (INAF-IASF Palermo, Italy), A. Bodaghee (GCSU, USA), L. Ducci, V. Savchenko, C. Ferrigno (ISDC, Switzerland); on behalf of the INTEGRAL Galactic bulge monitoring team*

on 19 Sep 2018; 15:52 UT

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Credential Certification: *E. Bozzo (enrico.bozzo@unige.ch)*

Subjects: X-ray, Binary, Neutron Star, Transient

During the observations in the direction of the Galactic Bulge (ATel #438) carried out from 2018 September 18 at 11:55 to 15:36 (UTC), INTEGRAL detected renewed activity from the transient neutron star low mass X-ray binary (NS LMXB) SAX J1750.8-2900.

The source is detected in the IBIS/ISGRI mosaic at a flux of 23 ± 3 mCrab in the 20-40 keV energy band and 29 ± 4 mCrab in the 40-80 keV energy band. The source is also detected by the JEM-X telescopes. The estimated fluxes from the JEM-X mosaics are 20 ± 3 mCrab in the 3-10 keV energy band and 16.0 ± 9.5 mCrab in the 10-25 keV energy band.

A preliminary analysis of the IBIS/ISGRI spectrum revealed that the hard X-ray emission from the source could be characterized by a power-law model with a photon index of 3.5 ± 1.2 (90% c.l.). The measured 20-100 keV flux from the spectral fit is $5E-10$ erg/cm²/s (no spectral analysis of the JEM-X data has been carried out due to the calibration uncertainties affecting the near-real time data).

No type-I X-ray bursts were observed in the JEM-X lightcurves extracted with a time resolution of 2 s in the 3-20 keV energy band.

The most recent hard X-ray outburst from this source was announced in 2015 (ATel #8058).

Further INTEGRAL observations toward the direction of the source are already planned in the coming days. Multi-wavelength observations in other energy domains are also encouraged, as well as observations to characterize the source soft X-ray emission (< 3 keV).

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R. E. Rutledge, Editor-in-Chief

rrutledge@astronomerstelegam.org

Derek Fox, Editor

dfox@astronomerstelegam.org

Mansi M. Kasliwal, Co-Editor

mansi@astronomerstelegam.org